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<110> The Scripps Research Institute
<110> Barbas III, Carlos F.
     Chung, Junho
<120> INTEGRIN ALPHA.IIb.BETA.3 SPECIFIC ANTIBODIES AND PEPTIDES
<130> TSRI 1019.1 US
<140> US 10/581,431
<141> 2004-12-03
<150> US 60/526,859
<151> 2003-12-03
<150> PCT/US2004/040381
<151> 2004-12-03
<160> 78
<210> 1
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<400> 1
Cys Ser Phe Gly Arg Gly Asp Ile Arg Asn Cys
<210> 2
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<400> 2
Gly Ser Phe Gly Arg Gly Asp Ile Arg Asn Gly
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<223> Synthetic Construct
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<222> (3,4,5,9,10,11)
<223> encoded by randomized DNA sequence: Ala, Cys, Asp, Glu,
Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
Thr, Val, Trp, Tyr
<400> 3
Val Gly Xaa Xaa Xaa Arg Ala Asp Xaa Xaa Xaa Tyr Ala Met Asp
Val
<210> 4
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> HCDR3 consensus part
<400> 4
Val Val Cys Arg Ala Asp Lys Arg Cys
<210> 5
<211> 9
<212> PRT
<213> Artificial Sequence
<223> HCDR3 consensus part
<400> 5
Val Trp Cys Arg Ala Asp Arg Arg Cys
  1
<210> 6
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> HCDR3 consensus part
<400> 6
Val Trp Cys Arg Ala Asp Lys Arg Cys
  1
<210> 7
<211> 9
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<213> Artificial Sequence
<223> HCDR3 consensus part
<400> 7
Val Val Cys Arg Ala Asp Arg Cys
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<223> CDR consensus part
<400> 8
Val Arg Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                  5
                                       10
 1
Val
<210> 9
<211> 72
<212> DNA
<213> Artificial Sequence
<220>
<223> primer neo-rad-f
<220>
<221> misc_feature
<222> (25, 26, 28, 29, 31, 32, 43, 44, 46, 47, 49, 50)
<223> n represents a, g, c, or t
<400> 9
gtgtattact gtgcgagagt ggggnnknnk nnkcgtgccg acnnknnknn ktacgctatg
                                                                          60
                                                                          72
gacgtctggg gc
<210> 10
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<212> DNA
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<223> primer dpseq
<400> 10
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<212> PRT

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21
agaagcgtag tccggaacgt c
<210> 11
<211> 57
<212> DNA
<213> Artificial Sequence
<220>
<223> primer DP-47N-term
<400> 11
gctgcccaac cagccatggc cgaggtgcag ctgttggagt ctgggggagg cttggta
                                                                         57
<210> 12
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> primer DP-47FR3
<400> 12
cactetegea cagtaataca eggeegtgte eteggetet
                                                                         39
<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> primer lead-VH
<400> 13
                                                                         21
ggccatggct ggttgggcag c
<210> 14
<211> 39
<212> DNA
<213> Artificial Sequence
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<223> primer dp-EX
<400> 14
gaggaggagg aggaggagag aagcgtagtc cggaacgtc
                                                                         39
<210> 15
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<211> 24

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<212> DNA
<213> Artificial Sequence
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<223> primer ompseq
<400> 15
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aagacagcta tcgcgattgc agtg
<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> primer leadB
<400> 16
                                                                         21
ggccatggct ggttgggcag c
<210> 17
<211> 41
<212> DNA
<213> Artificial Sequence
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<223> primer RSC-F
<400> 17
                                                                         41
gaggaggagg aggaggaggc ggggcccagg cggccgagct c
<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> primer lead-B
<400> 18
                                                                         21
ggccatggct ggttgggcag c
<210> 19
<211> 9
<212> PRT
<213> Homo sapiens
<400> 19
Thr His Ser Arg Ala Asp Arg Arg Glu
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<210> 20
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> inversed RAD motif peptide
<400> 20
Val Val Cys Asp Ala Arg Arg Cys
                  5
<210> 21
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> inversed RAD motif peptide
<400> 21
Thr His Ser Asp Ala Arg Arg Arg Glu
<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Construct
<220>
<221> VARIANT
<222> (1,2,3,7,8,9)
<223> encoded by randomized DNA sequence: Ala, Cys, Asp, Glu,
Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
Thr, Val, Trp, Tyr
<400> 22
Xaa Xaa Xaa Arg Ala Asp Xaa Xaa Xaa
  1
<210> 23
<211> 8
<212> PRT
<213> Artificial Sequence
<223> RAD motif peptide
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Cys Arg Ala Asp Val Pro Leu Cys
                 5
<210> 24
<211> 9
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<220>
<223> RAD motif peptide
<400> 24
Cys Met Ser Arg Ala Asp Arg Pro Cys
<210> 25
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CDR consensus part
<400> 25
Val Arg Val Val Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
Val
<210> 26
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
<400> 26
Val Arg Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
 1
Val
<210> 27
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
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<400> 27
Val Arg Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
Val
<210> 28
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
<400> 28
Val Gly Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
Val
<210> 29
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CDR consensus part
<400> 29
Val Gly Val Val Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                  5
 1
Val
<210> 30
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CDR consensus part
<400> 30
Val Gly Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
Val
<210> 31
<211> 16
<212> PRT
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<213> Artificial Sequence

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<223> CDR consensus part
<400> 31
Val Gly Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
Val
<210> 32
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD87 part
<400> 32
Glu Val Gln Leu Glu Ser Gly Gly Leu Val Gln Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                 20
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
                                     40
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
                 65
                                                          75
Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
                 80
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp
                 95
                                    100
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
<210> 33
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD9 part
<400> 33
Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala
                 50
                                     55
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
                 65
```

<220>

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr 80 85 90

Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp 95

Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr 110 115

<210> 34 <211> 118 <212> PRT <213> Homo sapiens <220> <223> RAD12 part

<400> 34

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser 20 Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu 35 40 Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Tyr Ala 55 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr 80 Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Val Cys Arg Ala Asp 95 100 Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr 110 115

<210> 35 <211> 118 <212> PRT <213> Homo sapiens <220> <223> RAD34 part

<400> 35

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85
                                                         90
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Cys Arg Ala Asp
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
<210> 36
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD3 part
<400> 36
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                 35
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Ala
                 50
                                     55
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
Ala Val Tyr Tyr Cys Ala Arg Val Arg Val Cys Arg Ala Asp
                 95
                                    100
Arg Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                                    115
                110
<210> 37
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 37
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val His Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
                 20
                                     25
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Ala
Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Gln
                                     70
Ser Thr Ala Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr
                                                          90
                 80
                                     85
```

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Ala Val Tyr Tyr Cys Ala Arg Val Gly Val Trp Cys Arg Ala Asp
                 95
Lys Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
<210> 38
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 38
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val His Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser
Ser Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
Glu Trp Val Ser Ala Ile Gly Thr Gly Gly Gly Thr Tyr Ala
Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Gln
                 65
                                     70
Ser Thr Ala Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr
Ala Val Tyr Tyr Cys Ala Arg Val Gly Val Trp Cys Arg Ala Asp
Lys Arg Cys Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
<210> 39
<211> 119
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
<400> 39
Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
Phe Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                35
                                     40
Glu Trp Val Ser Gly Val Ser Ser Ser Gly Ile Thr Thr Tyr Tyr
Ala Ala Ser Val Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
                                     85
Thr Ala Val Tyr Tyr Cys Ala Arg Val Arg Thr His Ser Arg Ala
```

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95
                                     100
                                                          105
Asp Arg Arg Glu Tyr Ala Met Asp Val Trp Gly Gln Gly Thr
                110
<210> 40
<211> 3
<212> PRT
<213> Homo sapiens
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<223> RGD motif
<400> 40
Arg Gly Asp
<210> 41
<211> 3
<212> PRT
<213> Artificial Sequence
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<223> RAD motif
<400> 41
Arg Ala Asp
<210> 42
<211> 3
<212> PRT
<213> Mus musculus
<220>
<223> RYD motif
<400> 42
Arg Tyr Asp
 1
<210> 43
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
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Thr His Ser Arg Ala Asp Arg Arg Glu
<210> 44
<211> 9
<212> PRT
<213> Homo sapiens
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<223> RAD3 part
<400> 44
Val Val Cys Arg Ala Asp Arg Cys
<210> 45
<211> 9
<212> PRT
<213> Homo sapiens
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<223> RAD4 part
<400> 45
Val Trp Cys Arg Ala Asp Arg Arg Cys
<210> 46
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD9 part
<400> 46
Val Val Cys Arg Ala Asp Arg Arg Cys
<210> 47
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD11 part
<400> 47
Val Trp Cys Arg Ala Asp Arg Arg Cys
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1 5

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<210> 48
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD12 part
<400> 48
Val Val Cys Arg Ala Asp Arg Arg Cys
<210> 49
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 49
Val Trp Cys Arg Ala Asp Lys Arg Cys
<210> 50
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD34 part
<400> 50
Val Val Cys Arg Ala Asp Arg Arg Cys
<210> 51
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD87 part
<400> 51
Val Val Cys Arg Ala Asp Arg Arg Cys
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<210> 52
<211> 9
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 52
Val Trp Cys Arg Ala Asp Lys Arg Cys
<210> 53
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Anti-gp120 Fab part
<400> 53
Val Gly Pro Tyr Ser Trp Asp Asp Ser Pro Asp Gln Asn Tyr Tyr
                  5
                                      10
                                                           15
Met Asp Val
<210> 54
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Synthetic Construct
<220>
<221> VARIANT
<222> (4,5,6,10,11,12)
<223> Fab library part; Ala, Cys, Asp, Glu, Phe, Gly, His, Ile,
Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 54
Val Gly Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Cys Tyr Tyr
Met Asp Val
<210> 55
<211> 18
<212> PRT
<213> Homo sapiens
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<220>
<223> Fab-4 part
<400> 55
Val Gly Cys Thr Gly Gln Arg Gly Asp Trp Arg Ser Cys Tyr Tyr
Met Asp Val
<210> 56
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Fab-7 part
<400> 56
Val Gly Cys Thr Tyr Gly Arg Gly Asp Thr Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 57
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Fab-8 part
<400> 57
Val Gly Cys Pro Ile Pro Arg Gly Asp Trp Arg Glu Cys Tyr Tyr
Met Asp Val
<210> 58
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Fab-9 part
<400> 58
Val Gly Cys Ser Phe Gly Arg Gly Asp Ile Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 59
<211> 18
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<213> Homo sapiens
<220>
<223> Fab-10 part
<400> 59
Val Gly Cys Thr Trp Gly Arg Gly Asp Glu Arg Asn Cys Tyr Tyr
                                      10
Met Asp Val
<210> 60
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> Synthetic Construct
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<221> VARIANT
<222> (7,8,9,10)
<223> MTF library part; Ala, Cys, Asp, Glu, Phe, Gly, His,
Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 60
Val Gly Cys Ser Phe Gly Xaa Xaa Xaa Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 61
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-2 part
<400> 61
Val Gly Cys Ser Phe Gly Arg Thr Asp Gln Arg Ile Cys Tyr Tyr
                                      10
Met Asp Val
<210> 62
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-10 part
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<212> PRT

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Val Gly Cys Ser Phe Gly Lys Gly Asp Asn Arg Ile Cys Tyr Tyr
Met Asp Val
<210> 63
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-32 part
<400> 63
Val Gly Cys Ser Phe Gly Arg Arg Asn Glu Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 64
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-40 part
<400> 64
Val Gly Cys Ser Phe Gly Arg Asn Asp Ser Arg Asn Cys Tyr Tyr
                                      10
Met Asp Val
<210> 65
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-1 part
<400> 65
Val Gly Cys Ser Phe Gly Arg Val Asp Asp Arg Asn Cys Tyr Tyr
                                       10
Met Asp Val
<210> 66
<211> 18
<212> PRT
<213> Homo sapiens
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<220>
<223> MTF-12 part
<400> 66
Val Gly Cys Ser Phe Gly Arg Ala Asp Arg Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 67
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-15 part
<400> 67
Val Gly Cys Ser Phe Gly Arg Ser Val Asp Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 68
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-7 part
<400> 68
Val Gly Cys Ser Phe Gly Lys Arg Asp Met Arg Asn Cys Tyr Tyr
                  5
Met Asp Val
<210> 69
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-13 part
<400> 69
Val Gly Cys Ser Phe Gly Arg Trp Asp Ala Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 70
<211> 18
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<213> Homo sapiens
<220>
<223> MTF-14 part
<400> 70
Val Gly Cys Ser Phe Gly Arg Gln Asp Val Arg Asn Cys Tyr Tyr
                                      10
Met Asp Val
<210> 71
<211> 18
<212> PRT
<213> Homo sapiens
<220>
<223> MTF-20 part
<400> 71
Val Gly Cys Ser Phe Gly Arg Asp Asp Gly Arg Asn Cys Tyr Tyr
Met Asp Val
<210> 72
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> Synthetic Construct
<220>
<221> VARIANT
<222> (3,4,5,9,10,11)
<223> RAD library part; Ala, Cys, Asp, Glu, Phe, Gly, His, Ile,
Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr
<400> 72
Val Arg Xaa Xaa Xaa Arg Ala Asp Xaa Xaa Xaa Tyr Ala Met Asp
                  5
                                      10
 1
Val
<210> 73
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD1 part
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<212> PRT

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Val Arg Thr His Ser Arg Ala Asp Arg Arg Gly Tyr Ala Met Asp
                                      10
                  5
Val
<210> 74
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD3 part, RAD9 part, RAD12 part, and RAD34 part
<400> 74
Val Arg Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
Val
<210> 75
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD4 part and RAD11 part
<400> 75
Val Gly Val Trp Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                      10
Val
<210> 76
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD32 part
<400> 76
Val Gly Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                      10
Val
<210> 77
<211> 16
<212> PRT
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<213> Homo sapiens

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<220>
<223> RAD87 part
<400> 77
Val Gly Val Val Cys Arg Ala Asp Arg Arg Cys Tyr Ala Met Asp
                                    10
Val
<210> 78
<211> 16
<212> PRT
<213> Homo sapiens
<220>
<223> RAD88 part
<400> 78
Val Arg Val Trp Cys Arg Ala Asp Lys Arg Cys Tyr Ala Met Asp
                                    10
Val
```

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